

GARY S. RASMUSSEN & ASSOCIATES, INC. / ENGINEERING GEOLOGY

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July 27, 1990

Paul Hubbs Construction Company
140 W. Valley Blvd.
Rialto, California 92376

Project No. 2914.1

Attention: Jay Hubbs

Subject: Erosion Potential of Proposed Cut Slopes, Pyrite Quarry Reclamation Plan, Pyrite Street, Glen Avon Area, Riverside County, California.

Reference: Preliminary Engineering Geology Investigation of Slope Stability, Pyrite Quarry Reclamation Plan, Portion of Section 1, T2S, R6W, SBB&M, Pyrite Street, Glen Avon Area, Riverside County, California, Our Report Dated July 3, 1990, Project No. 2914.

In accordance with the request of Russ Mullins of Brown & Mullins, this letter clarifies the geologic factors regarding the erosion potential of proposed cut slopes associated with the Pyrite Quarry reclamation plan.

The proposed cut slopes will consist of multiple vertical cut slopes separated by horizontal benches. As indicated in our above-referenced geologic investigation of slope stability, very dense bedrock is expected to be exposed in most of the proposed cut slopes. The dense bedrock is considered to have only a low potential for erosion by wind and water. Planting of the cut slopes will probably be impractical. However, bedrock just below the natural ground surface is suspected to be sufficiently weathered so that planting of the uppermost bench may be feasible. Any planting should be done with appropriate drought-resistant vegetation.

We understand that drainage of the benches is to be accomplished by sheet flow across the benches. Siltation from windblown dust and water-transported materials on the benches is expected to occur. Siltation may eventually allow establishment of vegetation on the benches.

Please contact us if you have questions.

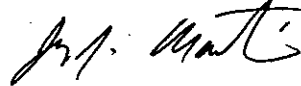
Paul Hubbs Construction

Pyrite Quarry

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Respectfully submitted,

GARY S. RASMUSSEN & ASSOCIATES, INC.



Jay J. Martin
Engineering Geologist, EG 1529

JJM/pg

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